

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/586,374
Source: JFWR
Date Processed by STIC: 08/01/2006

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/586,374

CRF Edit Date: 08/01/2006
Edited by: DA

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

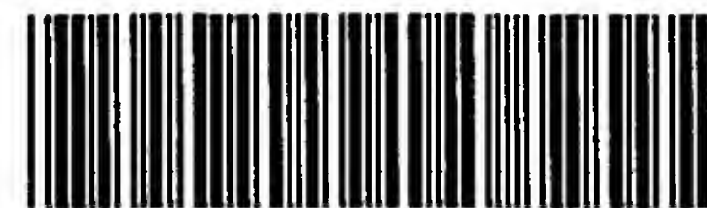
____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

____ Deleted: ____ invalid beginning/end-of-file text ; ____ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

____ Moved responses to same line as heading/numeric identifier, specifically:

____ Other:



IFWP

RAW SEQUENCE LISTING

DATE: 08/01/2006

PATENT APPLICATION: US/10/586,374

TIME: 15:52:40

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312006\J586374.raw

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4 <110> APPLICANT: Robert G.K. Donald
5      Paul Liberator
6      Xiaotian Zhong
8 <120> TITLE OF INVENTION: Coccidian parasite casein kinase I as a
9      chemotherapeutic target for antiprotozoal agents
12 <130> FILE REFERENCE: 21554P
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/586,374
C--> 14 <141> CURRENT FILING DATE: 2006-07-14
14 <150> PRIOR APPLICATION NUMBER: 60/537,094
15 <151> PRIOR FILING DATE: 2004-01-16
17 <150> PRIOR APPLICATION NUMBER: PCT/US2005/000955
18 <151> PRIOR FILING DATE: 2005-01-12
20 <160> NUMBER OF SEQ ID NOS: 45
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 2182
26 <212> TYPE: DNA
27 <213> ORGANISM: Eimeria tenella
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (715)...(1722)
33 <400> SEQUENCE: 1
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35 cttgggagcc caccaagtgc tgcgcttgc tagcagctac aggagctgcc gcgggggttg 120
36 tccctgagcc agcgtgcatg tatggtccgg cagccagctt ggtgtcgcag ccgtacttct 180
37 tggaagcgag agagactgtg ggagagcgca aatcactcca gccgcttcca ggggagtctg 240
38 gggaccgcag gagcgttgga ggctgcctgc cggcataaac aggaacaagc gcattcttat 300
39 tcttctgtgg ttgctgagtt ctggctgcgt tcaagggggt tcacctcttc cccttctggc 360
40 gagtttttgc tgcgtctttc cctaagaagc agcgccacgt gcgtggcgtg cctcagcctg 420
41 acgcggtgca ccttttacgt aagagcgtcg atagcatcgg tcatctacag cagcgtgctg 480
42 ctgcttccgt gacctttaca ctgcttgtgg cgggccgtct tgtagagggg ccactctgct 540
43 gttcgctgct ggacgcagac ccggcgcccg acatttccgg cagccgggca gttgagataa 600
44 accggctgcc cgggtggcgt cgaaattgaa gcaggatctc tacagtaagg aacaaatcgc 660
45 gctattttta aggagtgtgt atacttgggg cgttactcgt gagtattgct gatg atg 717
46                                     Met
47                                     1
48 gac gtc cgt gtg ggg ggt aag tat cgt ttg ggg agg aag att ggg agc 765
49 Asp Val Arg Val Gly Gly Lys Tyr Arg Leu Gly Arg Lys Ile Gly Ser
50      5      10      15
51 gga tcc ttc ggc gac atc tac ctt ggt acg aac atc tca aca gga gat 813
52 Gly Ser Phe Gly Asp Ile Tyr Leu Gly Thr Asn Ile Ser Thr Gly Asp
53      20      25      30
54 gaa gtc gct atc aaa ttg gaa agc gtg cgg tct agg cat cca caa cta 861

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/586,374

DATE: 08/01/2006

TIME: 15:52:40

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312006\J586374.raw

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57		35					40					45					
58	atc	tat	gaa	agc	aag	ctg	tac	aaa	atc	cta	acg	ggt	gga	atc	gga	atc	909
59	Ile	Tyr	Glu	Ser	Lys	Leu	Tyr	Lys	Ile	Leu	Thr	Gly	Gly	Ile	Gly	Ile	
60	50					55					60					65	
61	ccg	act	ctt	tac	tgg	tat	ggg	atc	gag	ggg	gat	tac	aac	gtt	atg	att	957
62	Pro	Thr	Leu	Tyr	Trp	Tyr	Gly	Ile	Glu	Gly	Asp	Tyr	Asn	Val	Met	Ile	
63					70					75				80			
64	att	gag	ctt	ttg	ggc	ccg	tct	ctt	gag	gac	ctc	ttc	agc	att	tgc	aac	1005
65	Ile	Glu	Leu	Leu	Gly	Pro	Ser	Leu	Glu	Asp	Leu	Phe	Ser	Ile	Cys	Asn	
66				85					90					95			
67	aga	aag	ctt	tct	ttg	aag	act	gtt	ctg	atg	ctc	gcc	gac	caa	atg	cta	1053
68	Arg	Lys	Leu	Ser	Leu	Lys	Thr	Val	Leu	Met	Leu	Ala	Asp	Gln	Met	Leu	
69		100						105					110				
70	aat	cgt	att	gag	ttc	gtc	cac	agc	aga	cat	ttc	atc	cat	cga	gac	atc	1101
71	Asn	Arg	Ile	Glu	Phe	Val	His	Ser	Arg	His	Phe	Ile	His	Arg	Asp	Ile	
72		115					120					125					
73	aag	cct	gac	aat	ttt	ttg	atc	ggg	agg	ggc	aaa	aag	atg	tcc	att	gtt	1149
74	Lys	Pro	Asp	Asn	Phe	Leu	Ile	Gly	Arg	Gly	Lys	Lys	Met	Ser	Ile	Val	
75	130					135					140					145	
76	ttt	gct	atc	gac	ttt	ggc	ctc	gca	aag	aag	tac	aga	gat	ccc	aga	aca	1197
77	Phe	Ala	Ile	Asp	Phe	Gly	Leu	Ala	Lys	Lys	Tyr	Arg	Asp	Pro	Arg	Thr	
78				150					155					160			
79	cag	tcc	cat	att	cct	tat	cga	gaa	ggg	aag	aac	ctg	aca	ggt	acc	gcg	1245
80	Gln	Ser	His	Ile	Pro	Tyr	Arg	Glu	Gly	Lys	Asn	Leu	Thr	Gly	Thr	Ala	
81				165					170					175			
82	agg	tac	gcc	tct	gtg	aac	acc	cac	ttg	gga	ata	gaa	cag	agc	agg	cgc	1293
83	Arg	Tyr	Ala	Ser	Val	Asn	Thr	His	Leu	Gly	Ile	Glu	Gln	Ser	Arg	Arg	
84		180						185					190				
85	gat	gat	ctg	gaa	gcg	ctc	ggc	tac	gtc	tta	atg	tac	ttc	aac	aga	ggt	1341
86	Asp	Asp	Leu	Glu	Ala	Leu	Gly	Tyr	Val	Leu	Met	Tyr	Phe	Asn	Arg	Gly	
87		195					200					205					
88	tcc	tta	ccc	tgg	caa	gga	tta	aag	gcc	act	acg	aag	aaa	gat	aaa	tat	1389
89	Ser	Leu	Pro	Trp	Gln	Gly	Leu	Lys	Ala	Thr	Thr	Lys	Lys	Asp	Lys	Tyr	
90	210					215					220					225	
91	gac	aag	att	atg	gag	aag	aag	atg	tcc	acc	cct	att	gaa	gtc	ctt	tgc	1437
92	Asp	Lys	Ile	Met	Glu	Lys	Lys	Met	Ser	Thr	Pro	Ile	Glu	Val	Leu	Cys	
93				230						235				240			
94	aaa	caa	ttt	cca	ttt	gag	ttt	atc	aca	tat	ctg	aac	tat	tgc	cgg	tct	1485
95	Lys	Gln	Phe	Pro	Phe	Glu	Phe	Ile	Thr	Tyr	Leu	Asn	Tyr	Cys	Arg	Ser	
96			245					250					255				
97	ctg	cga	ttc	gaa	gat	cgc	ccg	gac	tat	tcc	tat	ttg	aga	cgg	ttg	ttc	1533
98	Leu	Arg	Phe	Glu	Asp	Arg	Pro	Asp	Tyr	Ser	Tyr	Leu	Arg	Arg	Leu	Phe	
99		260						265					270				
100	aag	gat	ctt	ttc	ttc	cgt	gag	gga	tac	cag	tat	gac	ttt	ata	ttc	gat	1581
101	Lys	Asp	Leu	Phe	Phe	Arg	Glu	Gly	Tyr	Gln	Tyr	Asp	Phe	Ile	Phe	Asp	
102		275					280					285					
103	tgg	aca	ttt	ctg	cat	gct	gag	aga	gag	cgc	gag	cgt	caa	aga	cga	tcg	1629
104	Trp	Thr	Phe	Leu	His	Ala	Glu	Arg	Glu	Arg	Glu	Arg	Gln	Arg	Arg	Ser	

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DATE: 08/01/2006

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Input Set : A:\pto.da.txt

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105 290          295          300          305
106 atg gtc aac caa ggc gca gaa tca ggg aac cag tgg aga cga gac gcg 1677
107 Met Val Asn Gln Gly Ala Glu Ser Gly Asn Gln Trp Arg Arg Asp Ala
108          310          315          320
109 tcg ggc aga gat cca ctt gga cgg ttg cct cag tta gaa ccg taa 1722
111 Ser Gly Arg Asp Pro Leu Gly Arg Leu Pro Gln Leu Glu Pro *
112          325          330          335
114 tctctttacg ggcagattgc cgtacgggtc ttctgctcat tcagtggcag tgccaccgca 1782
115 gtgctatctg aggctgtggc ttcaggatgt ggtagccagt taccatgggc acttgccctc 1842
116 gctaggacag ccttcgcagg gaaatgtcac agtagcctgc attatgtggt gtgagaactg 1902
117 ctacgcgatt cctgtagttg cttttacgaa gcaggatacg cagcgtgcat cacgcggtgg 1962
118 ttcgagcgct cgctacgcat cacagggctg tgaggcaagt tagtatcttt gggggacgag 2022
119 ttgagagtgt cagaatcgat agtctcaggg catgcaggcg aaatggaggc tgcgccagta 2082
120 gtgccagccg gtggcgaagg cgtcaaattt actttttttg ttgctgggga tattgttaga 2142
121 gcaacaactt ggggtctagat gctactgata aaaaaaaaaa 2182
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124 <211> LENGTH: 335
125 <212> TYPE: PRT
126 <213> ORGANISM: Eimeria tenella
128 <400> SEQUENCE: 2
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132 20 25 30
133 Asp Glu Val Ala Ile Lys Leu Glu Ser Val Arg Ser Arg His Pro Gln
134 35 40 45
135 Leu Ile Tyr Glu Ser Lys Leu Tyr Lys Ile Leu Thr Gly Gly Ile Gly
136 50 55 60
137 Ile Pro Thr Leu Tyr Trp Tyr Gly Ile Glu Gly Asp Tyr Asn Val Met
138 65 70 75 80
139 Ile Ile Glu Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Ser Ile Cys
140 85 90 95
141 Asn Arg Lys Leu Ser Leu Lys Thr Val Leu Met Leu Ala Asp Gln Met
142 100 105 110
143 Leu Asn Arg Ile Glu Phe Val His Ser Arg His Phe Ile His Arg Asp
144 115 120 125
145 Ile Lys Pro Asp Asn Phe Leu Ile Gly Arg Gly Lys Lys Met Ser Ile
146 130 135 140
147 Val Phe Ala Ile Asp Phe Gly Leu Ala Lys Lys Tyr Arg Asp Pro Arg
148 145 150 155 160
149 Thr Gln Ser His Ile Pro Tyr Arg Glu Gly Lys Asn Leu Thr Gly Thr
150 165 170 175
151 Ala Arg Tyr Ala Ser Val Asn Thr His Leu Gly Ile Glu Gln Ser Arg
152 180 185 190
153 Arg Asp Asp Leu Glu Ala Leu Gly Tyr Val Leu Met Tyr Phe Asn Arg
154 195 200 205
155 Gly Ser Leu Pro Trp Gln Gly Leu Lys Ala Thr Thr Lys Lys Asp Lys
156 210 215 220
157 Tyr Asp Lys Ile Met Glu Lys Lys Met Ser Thr Pro Ile Glu Val Leu

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PATENT APPLICATION: US/10/586,374

DATE: 08/01/2006

TIME: 15:52:40

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312006\J586374.raw

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158 225          230          235          240
159 Cys Lys Gln Phe Pro Phe Glu Phe Ile Thr Tyr Leu Asn Tyr Cys Arg
160          245          250          255
161 Ser Leu Arg Phe Glu Asp Arg Pro Asp Tyr Ser Tyr Leu Arg Arg Leu
162          260          265          270
163 Phe Lys Asp Leu Phe Phe Arg Glu Gly Tyr Gln Tyr Asp Phe Ile Phe
164          275          280          285
166 Asp Trp Thr Phe Leu His Ala Glu Arg Glu Arg Glu Arg Gln Arg Arg
167          290          295          300
168 Ser Met Val Asn Gln Gly Ala Glu Ser Gly Asn Gln Trp Arg Arg Asp
169 305          310          315          320
170 Ala Ser Gly Arg Asp Pro Leu Gly Arg Leu Pro Gln Leu Glu Pro
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175 <211> LENGTH: 2076
176 <212> TYPE: DNA
177 <213> ORGANISM: Toxoplasma gondii
179 <220> FEATURE:
180 <221> NAME/KEY: CDS
181 <222> LOCATION: (898)...(1872)
183 <400> SEQUENCE: 3
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186 ccctttctat gcgttgccac ccgtctgcaa gtatcgcgtc tttcgtctca tcagtgattt 180
187 tctttgcgtg tcgcgttcgg gacgcccttt tctctcctca actaactagc agacgtttct 240
188 tccgtcccgc atgcgacagc gaaggggcacg tccccccagt tcttcacgc ccacctgttg 300
189 tgcaacttgt cgcccgctcg tcttcacttc ttctctccca tcctctcgtg actcttcttc 360
190 tcgagaactc tttctgtcga actctcaacc cccacgactg ctggtttcgt ggccgtcccg 420
191 catgcacctt gtgtcccgcg gccttggcgc aaacaccgcg tttctctgct gtccgcctcc 480
192 cggtggactt ctctccgtgt tttttcgtgt tgccaaaagt ttgtctgctt tgacgtttct 540
193 ctgctcaccg attgccgct cttgatgagg aacgctccac attgacagcg aactcacagc 600
194 acgcaccctc cgcgagcgga ctttcacgag cgaggcaaga atccatcgtc accccgccta 660
195 cacgtacact actccacttg ggtgcccacg cgcggcttct gggagacaga gacggtcctc 720
196 gttttccgtg tcagaacttt gtcgaggaaa cgctgctgct ggcagcgggg attgtgacct 780
197 ccctcggcga acgggcgaag ccgccctgtc gcgcgtcgcg actcagctga ggcgacaggc 840
198 ggtcggcggc gtgacctctc tttctttttg cattcggccc tgattgcagc acgaagg atg 900
199                                     Met
200                                     1
201 gag gtc agg gtc gga ggc aag tac cga ctt ggt cgg aag atc ggc agc 948
202 Glu Val Arg Val Gly Gly Lys Tyr Arg Leu Gly Arg Lys Ile Gly Ser
203          5          10          15
204 ggg tca ttc ggt gat att tat atc ggt gca aac att ttg acg ggg gat 996
205 Gly Ser Phe Gly Asp Ile Tyr Ile Gly Ala Asn Ile Leu Thr Gly Asp
206          20          25          30
207 gag gtg gcg atc aag ttg gag tct atc aag tcg aag cac ccg cag ctg 1044
208 Glu Val Ala Ile Lys Leu Glu Ser Ile Lys Ser Lys His Pro Gln Leu
209          35          40          45
210 ctc tat gag tcg aag ctg tac aaa ctg ctg gct ggc ggc att ggg att 1092
211 Leu Tyr Glu Ser Lys Leu Tyr Lys Leu Leu Ala Gly Gly Ile Gly Ile

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RAW SEQUENCE LISTING

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312006\J586374.raw

212	50					55				60				65			
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215					70					75				80			
216	atc	gac	ctt	ctc	ggc	cct	tct	ctg	gag	gac	ctt	ttc	agt	atc	tgc	aat	1188
217	Ile	Asp	Leu	Leu	Gly	Pro	Ser	Leu	Glu	Asp	Leu	Phe	Ser	Ile	Cys	Asn	
218				85					90					95			
219	cgc	aaa	ctc	tct	ctc	aag	acg	gtg	ttg	atg	ctc	gca	gac	cag	atg	ctc	1236
221	Arg	Lys	Leu	Ser	Leu	Lys	Thr	Val	Leu	Met	Leu	Ala	Asp	Gln	Met	Leu	
222			100					105					110				
223	aac	cgc	atc	gag	ttt	gtc	cat	agc	aag	aac	ttc	atc	cat	cgc	gat	atc	1284
224	Asn	Arg	Ile	Glu	Phe	Val	His	Ser	Lys	Asn	Phe	Ile	His	Arg	Asp	Ile	
225		115					120					125					
226	aaa	ccc	gac	aac	ttc	ctc	att	ggc	cgt	gga	aag	aag	atg	tcc	gtc	gtc	1332
227	Lys	Pro	Asp	Asn	Phe	Leu	Ile	Gly	Arg	Gly	Lys	Lys	Met	Ser	Val	Val	
228	130					135				140				145			
229	tac	atc	atc	gat	ttc	ggt	ttg	gca	aag	aaa	tat	cga	gac	cca	aag	act	1380
230	Tyr	Ile	Ile	Asp	Phe	Gly	Leu	Ala	Lys	Lys	Tyr	Arg	Asp	Pro	Lys	Thr	
231				150					155					160			
232	cag	caa	cat	atc	cca	tac	agg	gaa	ggc	aag	aac	cta	aca	ggc	aca	gcg	1428
233	Gln	Gln	His	Ile	Pro	Tyr	Arg	Glu	Gly	Lys	Asn	Leu	Thr	Gly	Thr	Ala	
234			165					170					175				
235	cgt	tac	gct	tcc	atc	aac	acc	cac	ctg	ggg	atc	gag	cag	agt	cgg	cga	1476
236	Arg	Tyr	Ala	Ser	Ile	Asn	Thr	His	Leu	Gly	Ile	Glu	Gln	Ser	Arg	Arg	
237			180				185						190				
238	gac	gac	cta	gag	gcg	ctc	ggt	tac	gtt	ctc	atg	tac	ttc	aat	aga	ggt	1524
239	Asp	Asp	Leu	Glu	Ala	Leu	Gly	Tyr	Val	Leu	Met	Tyr	Phe	Asn	Arg	Gly	
240		195				200					205						
241	tct	ctt	ccg	tkg	cag	ggt	ctg	aag	gcg	acg	acg	aag	aag	gac	aaa	tac	1572
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243	210					215				220				225			
244	gac	aag	att	atg	gag	aag	aaa	atg	tct	act	ccc	atc	gaa	att	ttg	tgc	1620
245	Asp	Lys	Ile	Met	Glu	Lys	Lys	Met	Ser	Thr	Pro	Ile	Glu	Ile	Leu	Cys	
246				230				235					240				
247	aag	cat	ttc	cca	ttc	gag	ttc	atc	acc	tac	ttg	aat	tac	tgc	cgg	tcc	1668
248	Lys	His	Phe	Pro	Phe	Glu	Phe	Ile	Thr	Tyr	Leu	Asn	Tyr	Cys	Arg	Ser	
249			245					250					255				
250	ctg	cgc	ttc	gag	gat	cgt	cct	gac	tac	gca	tac	ttg	cga	cgc	ctg	ttc	1716
251	Leu	Arg	Phe	Glu	Asp	Arg	Pro	Asp	Tyr	Ala	Tyr	Leu	Arg	Arg	Leu	Phe	
252			260					265					270				
253	aaa	gac	ttg	ttt	ttt	aga	gag	gga	tat	cag	tac	gac	ttc	atc	ttc	gac	1764
254	Lys	Asp	Leu	Phe	Phe	Arg	Glu	Gly	Tyr	Gln	Tyr	Asp	Phe	Ile	Phe	Asp	
255		275					280					285					
256	tgg	act	ttc	atc	aac	acg	gag	aag	gat	cgc	gcg	agt	cga	aga	agc	cag	1812
257	Trp	Thr	Phe	Ile	Asn	Thr	Glu	Lys	Asp	Arg	Ala	Ser	Arg	Arg	Ser	Gln	
258	290					295				300				305			
259	caa	gtt	tat	gtg	gaa	gac	aac	cgg	caa	gtt	gag	gag	aat	cag	aac	gag	1860
260	Gln	Val	Tyr	Val	Glu	Asp	Asn	Arg	Gln	Val	Glu	Glu	Asn	Gln	Asn	Glu	
261				310				315					320				

VERIFICATION SUMMARY

DATE: 08/01/2006

PATENT APPLICATION: US/10/586,374

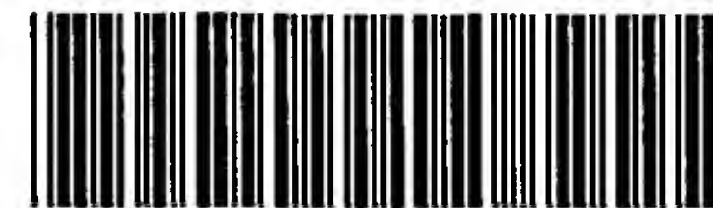
TIME: 15:52:41

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312006\J586374.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:242 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:3
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1572
L:1061 M:283 W: Missing Blank Line separator, <220> field identifier

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/586,374

DATE: 07/26/2006
TIME: 15:08:44

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\07262006\J586374.raw

4 <110> APPLICANT: Robert G.K. Donald
5 Paul Liberator
6 Xiaotian Zhong
8 <120> TITLE OF INVENTION: Coccidian parasite casein kinase I as a
9 chemotherapeutic target for antiprotozoal agents
12 <130> FILE REFERENCE: 21554P
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/586,374
C--> 14 <141> CURRENT FILING DATE: 2006-07-14
14 <150> PRIOR APPLICATION NUMBER: 60/537,094
15 <151> PRICE FILING DATE: 2004-01-16
17 <150> PRIOR APPLICATION NUMBER: PCT/US2005/000955
18 <151> PRIOR FILING DATE: 2005-01-12
20 <160> NUMBER OF SEQ ID NOS: 45
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
Corrected Diskette Needed

(pg-1)

ERRORED SEQUENCES

1057 <210> SEQ ID NO: 45
1058 <211> LENGTH: 29
1059 <212> TYPE: DNA
1060 <213> ORGANISM: Artificial Sequence
W--> 1061 <220> FEATURE:
1062 <223> OTHER INFORMATION: oligonucleotide
1064 <400> SEQUENCE: 45
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29

deleted

VERIFICATION SUMMARY

DATE: 07/26/2006

PATENT APPLICATION: US/10/586,374

TIME: 15:08:45

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07262006\J586374.raw

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:242 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:3
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1572
L:1061 M:283 W: Missing Blank Line separator, <220> field identifier
L:1070 M:254 E: No. of Bases conflict, this line has no nucleotides.